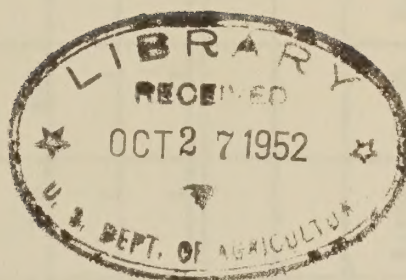
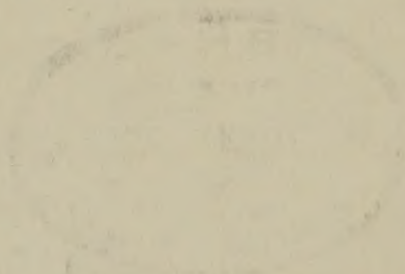


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POWER REQUIREMENT STUDY,
BORDER COUNTIES POWER COOPERATIVE, INC.
(MINNESOTA 99 LAKE OF THE WOODS)



✓ 2 X ✓
U.S. ✓
Prepared by
Program Analyst
Office of the Administrator
RURAL ELECTRIFICATION ADMINISTRATION
50
June 1952

POWER ADJUSTMENT SWIRL
POWER COGNITIVE POWER MANAGEMENT, INC.
(MINNESOTA LAKE OF THE WOODS)



Approved by
Special Agent
Office of the Administrator
BUREAU OF INVESTIGATION
JUNE 1952

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TABLE I

ESTIMATE OF LOADS - MINNESOTA 95 LAKE OF THE WOODS

MINNESOTA 99 LAKE OF THE WOODS	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
TYPE OF CONSUMER									
FARM	1,638	1,753	1,953	@0.579 948	@0.671 1,176	@0.827 1,615	@1740 2,850,120	@2100 3,681,300	@2700 5,273,100
NONFARM (RES.) & SEASONAL	110	125	150	@0.308 34	@0.397 50	@0.502 75	@840 92,400	@1080 135,000	@1440 216,000
SMALL COMMERCIAL	260	270	290	@1.370 356	@1.544 417	@1.843 534	@4800 1,248,000	@5460 1,474,200	@6600 1,914,000
STREET & HWY. LIGHTING	10	10	10	@2.084 21	@2.160 22	@2.318 23	@7500 75,000	@7800 78,000	@8400 84,000
TOWN RESIDENTIAL	380	400	435	@0.671 255	@0.780 312	@0.904 393	@2100 798,000	@2520 1,008,000	@3000 1,305,000
LARGE COMMERCIAL:				@85/1.4DF	@100/1.4DF	@100/1.4DF			
SAWMILL	1	1	1	61	71	71	60,000	70,000	70,000
POLE TREATING	1	1	1	@15/1.4DF 11	@15/1.4DF 11	@15/1.4DF 11	6,000	6,000	6,000
SUB-TOTAL									
							5,129,520	6,452,500	8,868,100
							@16% 977,480	@15% 1,138,500	@15% 1,564,900
PLUS DIST. LOSSES (APPROX.)									
TOTAL	2,400	2,560	2,840	1,686	2,059	2,722	6,107,000	7,591,000	10,433,000

ANNUAL LOAD FACTOR -

41.3%

42.1%

43.8%

PROGRAM ANALYST, OFFICE OF THE
ADMINISTRATOR, REA - JUNE 1952

TABLE II

ESTIMATE OF LOADS - MINNESOTA 97 ROSEAU

MINNESOTA 99 LAKE OF THE WOODS									
TYPE OF CONSUMER	NUMBER OF CONSUMERS			KW DEMAND			ANNUAL KWH REQUIREMENTS		
	1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM	2,480	2,580	2,670	@0.671	@0.811	@0.965	@2100	@2640	@3240
				1,664	2,092	2,577	5,208,000	6,811,200	8,650,800
TOWN RESIDENTIAL	140	150	160	@0.442	@0.547	@0.751	@1200	@1620	@2400
				62	82	120	168,000	243,000	384,000
SMALL COMMERCIAL	200	210	227	@0.827	@0.935	@1.059	@2700	@3120	@3600
				165	196	240	540,000	655,200	817,200
SUB-TOTAL							5,916,000	7,709,400	9,852,000
							@16%	@15%	@15%
PLUS DIST. LOSSES (APPROX.)							1,127,000	1,360,600	1,739,000
TOTAL	2,820	2,940	3,057	1,891	2,370	2,937	7,043,000	9,070,000	11,591,000

ANNUAL LOAD FACTOR - 42.5% 43.7% 45.1%

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ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS

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